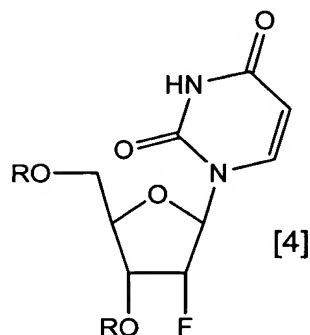


**Amendments to the Claims:**

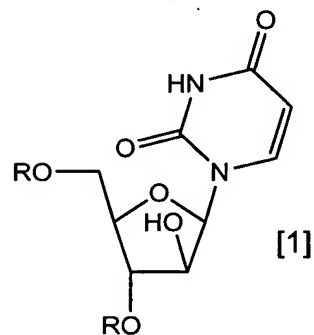
The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A process for producing 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form, represented by the formula [4],

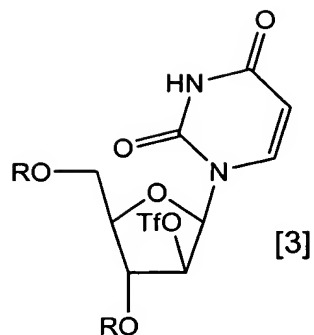


~~in the formula, wherein~~ R represents a protecting group of hydroxyl group — by reacting 1-β-D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by the formula [1],



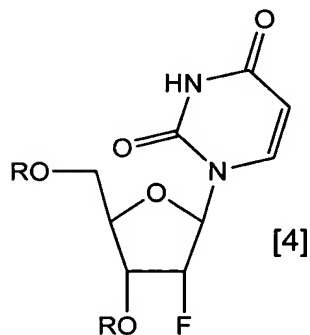
~~in the formula, wherein~~ R represents a protecting group of hydroxyl group — with a trifluoromethanesulfonylating agent represented by the formula [2],  
 $\text{CF}_3\text{SO}_2\text{X}$  [2]

~~in the formula, wherein~~ X represents a F atom, Cl atom or  $\text{CF}_3\text{SO}_3$  group —, in the presence of an organic base, to convert it to a 2'-triflate form represented by the formula [3],

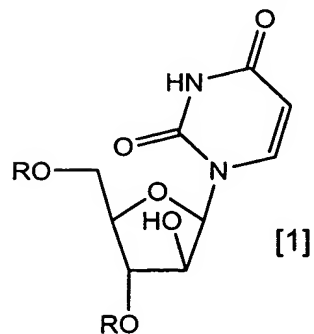


~~in the formula~~, wherein R represents a protecting group of hydroxyl group, and Tf represents a  $\text{CF}_3\text{SO}_2$  group —, followed by reacting with a fluorinating agent comprising [ ] a salt or complex comprising an organic base and hydrofluoric acid [ ] .

2. (Currently amended) A process for producing 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form, represented by the formula [4],

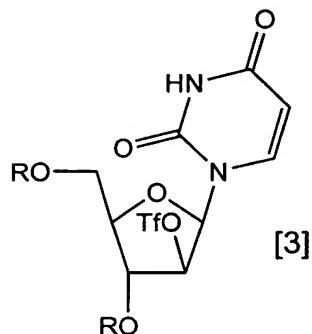


~~in the formula~~, R represents a protecting group of hydroxyl group — by reacting 1-β-D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by the formula [1],



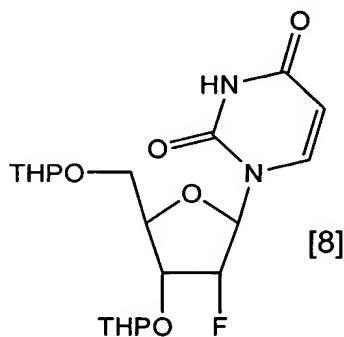
~~in the formula, wherein~~ R represents a protecting group of hydroxyl group — with a trifluoromethanesulfonylating agent represented by the formula [5],  
 $\text{CF}_3\text{SO}_2\text{F}$  [5]

in the presence of triethylamine, to convert it to a 2'-triflate form represented by the formula [3],

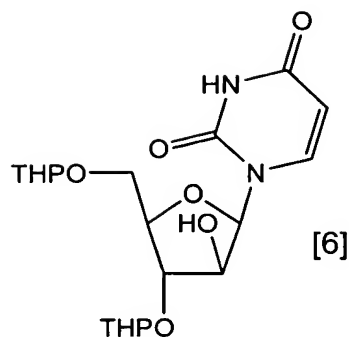


~~in the formula, wherein~~ R represents a protecting group of hydroxyl group, and Tf represents a  $\text{CF}_3\text{SO}_2$  group —, followed by reacting with a fluorinating agent comprising ['] a salt or complex comprising triethylamine and hydrofluoric acid ['] .

3. (Currently amended) A process for producing 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form, represented by the formula [8],

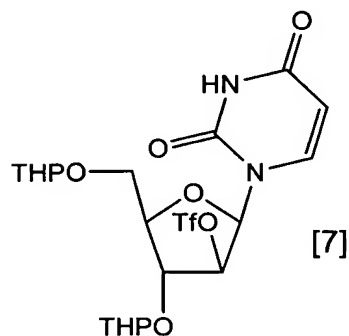


~~in the formula, wherein~~ THP represents a tetrahydropyranyl group — by reacting 1-β-D-arabinofuranosyluracil in 3',5'-hydroxyl-protected form, represented by the formula [6],



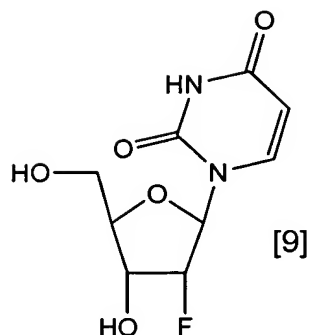
~~in the formula, wherein~~ THP represents a tetrahydropyranyl group  $\text{---}$  with a trifluoromethanesulfonylating agent represented by the formula [5],  
 $\text{CF}_3\text{SO}_2\text{F}$  [5]

in the presence of triethylamine, to convert it to a 2'-triflate form represented by the formula [7],

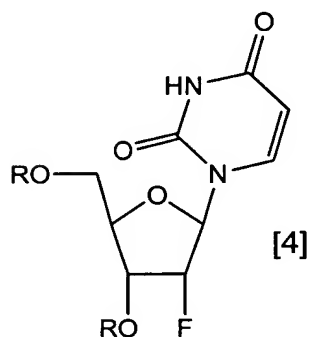


~~in the formula, wherein~~ THP represents a tetrahydropyranyl group, and Tf represents a  $\text{CF}_3\text{SO}_2$  group  $\text{---}$ , followed by reacting with a fluorinating agent comprising [I'] a salt or complex comprising triethylamine and hydrofluoric acid [I'] .

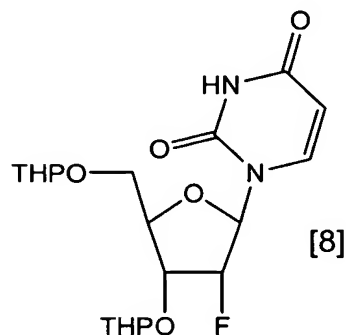
4. (Currently amended) A process for producing 2'-deoxy-2'-fluorouridine represented by the formula [9],



by reacting 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [4],

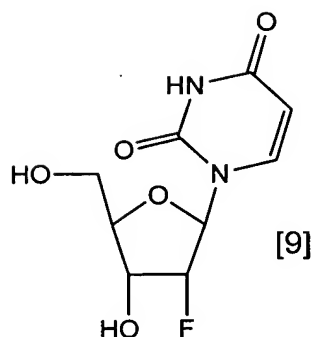


~~in the formula, wherein~~ R represents a protecting group of hydroxyl group  $\text{—}\text{O—}$  or 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [8],

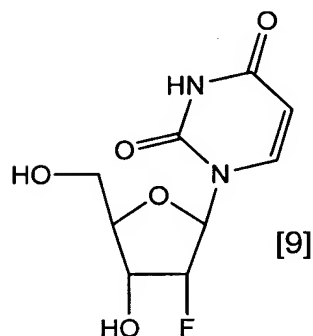


~~in the formula, wherein~~ THP represents a tetrahydropyranyl group  $\text{—}\text{O—}$ , which has been produced by ~~any the~~ process of claim 1, ~~claim 2 and claim 3~~, with a deprotecting agent.

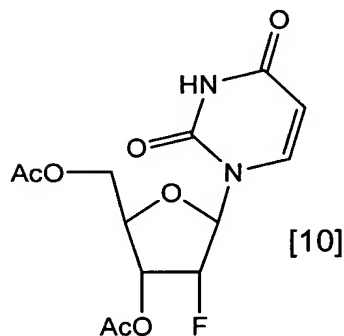
5. (Currently amended) A process for purifying 2'-deoxy-2'-fluorouridine represented by the formula [9],



comprising reacting 2'-deoxy-2'-fluorouridine represented by the formula [9],

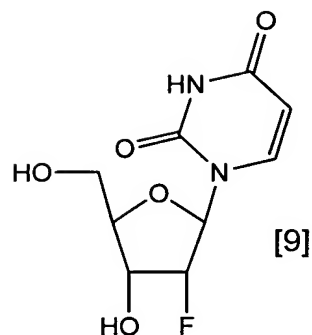


with an acetylating agent in the presence of an organic base, to convert it to 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form represented by the formula [10],

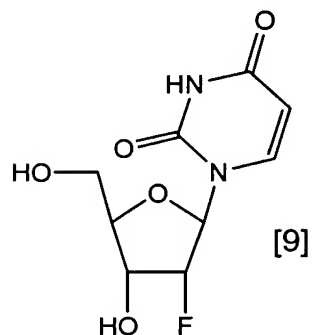


~~in the formula,~~ wherein Ac represents an acetyl group —C(=O)CH<sub>3</sub>, followed by a recrystallization purification of the 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form and then reacting with a deacetylating agent.

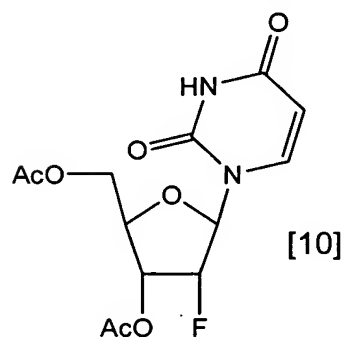
6. (Currently amended) A process for purifying 2'-deoxy-2'-fluorouridine represented by the formula [9],



comprising reacting 2'-deoxy-2'-fluorouridine, which has been produced by the process of claim 4 and is represented by the formula [9],

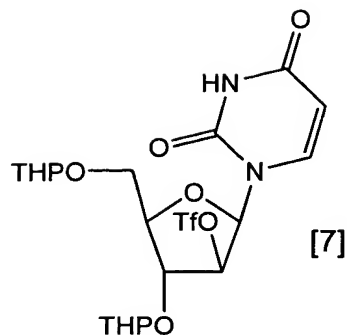


with an acetylating agent in the presence of an organic base, to convert it to 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form represented by the formula [10],



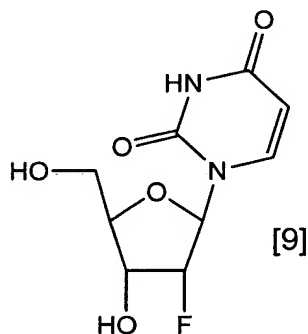
~~in the formula,~~ wherein Ac represents an acetyl group  $\text{—CH}_3$ , followed by a recrystallization purification of the 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form and then reacting with a deacetylating agent.

7. (Currently amended) A 2'-triflate form represented by the formula [7],

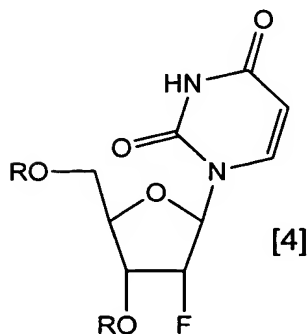


~~in the formula, wherein~~ THP represents a tetrahydropyranyl group, and Tf represents a  $\text{CF}_3\text{SO}_2$  group ~~—~~.

8. (New) A process for producing 2'-deoxy-2'-fluorouridine represented by the formula [9],

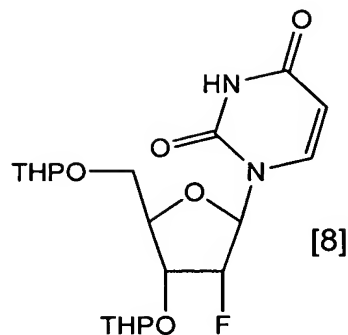


by reacting 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [4],



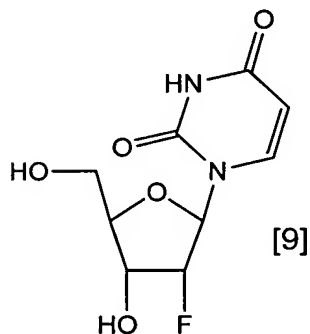
wherein R represents a protecting group of hydroxyl group or 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [8],



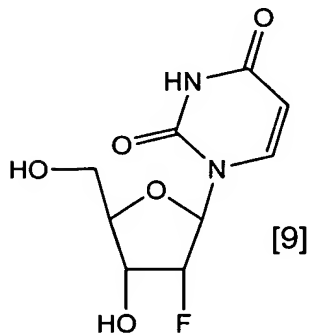


wherein THP represents a tetrahydropyranyl group, which has been produced by the process of claim 2, with a deprotecting agent.

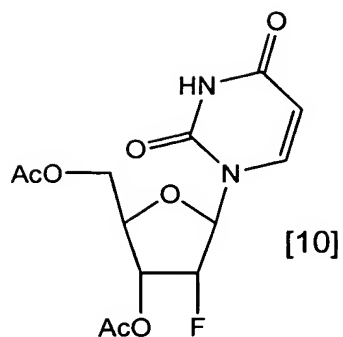
9. (New) A process for purifying 2'-deoxy-2'-fluorouridine represented by the formula [9],



comprising reacting 2'-deoxy-2'-fluorouridine, which has been produced by the process of claim 8 and is represented by the formula [9],

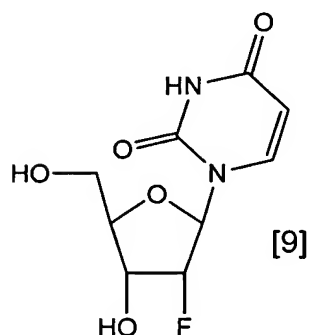


with an acetylating agent in the presence of an organic base, to convert it to 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form represented by the formula [10],

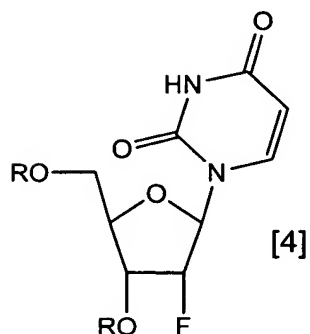


wherein Ac represents an acetyl group, followed by a recrystallization purification of the 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form and then reacting with a deacetylating agent.

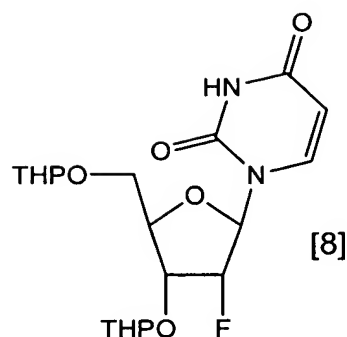
10. (New) A process for producing 2'-deoxy-2'-fluorouridine represented by the formula [9],



by reacting 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [4],

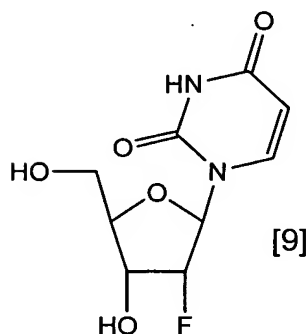


wherein R represents a protecting group of hydroxyl group or 2'-deoxy-2'-fluorouridine in 3',5'-hydroxyl-protected form represented by the formula [8],

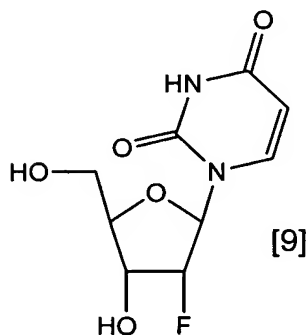


wherein THP represents a tetrahydropyranyl group, which has been produced by the process of claim 3, with a deprotecting agent.

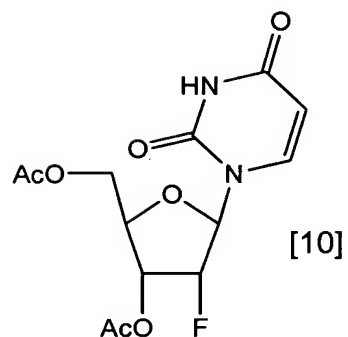
11. (New) A process for purifying 2'-deoxy-2'-fluorouridine represented by the formula [9],



comprising reacting 2'-deoxy-2'-fluorouridine, which has been produced by the process of claim 10 and is represented by the formula [9],



with an acetylating agent in the presence of an organic base, to convert it to 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form represented by the formula [10],



wherein Ac represents an acetyl group, followed by a recrystallization purification of the 2'-deoxy-2'-fluorouridine in 3',5'-diacetylated form and then reacting with a deacetylating agent.